

Amendments to the Specification

The paragraph on page 4, beginning on line 4:

*A1*  
In operation, communication processing circuitry 411 101 receives and processes communications from incoming links 111 to apply physical layer, link layer, and network layer functionality. Communication processing circuitry 101 transfers the communications to crossbar integrated circuits 102-104 over incoming channels 112-114. To implement routing, crossbar integrated circuits 102-104 switch the communications from incoming channels 112-114 to the proper outgoing channels 115-117. Communication processing circuitry 101 transfers the switched communications to outgoing links 118.

*A2*  
The paragraph on page 5, beginning on line 1:

FIG. 2 illustrates crossbar integrated circuit 202 in an example of the invention the prior art. Crossbar integrated circuit 202 includes serial channel interfaces 221-226 and crossbar matrix 240. Serial channel interfaces 221-223 are respectively coupled to incoming serial channels 231-233. Serial channel interfaces 221-223 are respectively coupled to crossbar matrix 240 by serial channels 241-243. Serial channel interfaces 224-225 224-226 are respectively coupled to outgoing serial channels 234-236. Serial channel interfaces 224-226 are respectively coupled to crossbar matrix 240 by serial channels 244-246. Crossbar matrix 240 includes cross-points that switch between incoming serial channels 241-243 and outgoing serial channels 244-246.

*A3*  
The paragraph on page 8, beginning on line 21:

In operation, communication processing circuitry 311 301 receives and processes communications from incoming links 311 to apply physical layer, link layer, and network layer functionality. Communication processing circuitry 301 transfers the communications to crossbar integrated circuits 302-304 over incoming parallel channels 312-314. To implement routing, crossbar integrated circuits 302-304 switch the communications from incoming parallel channels 312-314 to the proper outgoing parallel channels 315-317. Communication processing circuitry 301 transfers the switched communications to outgoing links 318.